

Manufacturer: **Hatteland Technology AS**
 Product: **55.0 inch Multi Vision Display (MVD)**
 Chart & Planning Table with Optional Integrated Computer (HT C03/C02)
 Type: **HD 55T22 MVD-AAx-TOGP**
 Where x=ECDIS Calibration (4) or No ECDIS Calibration (1)

Last Revised: **24 Apr 2023**
 Revision#: **26**

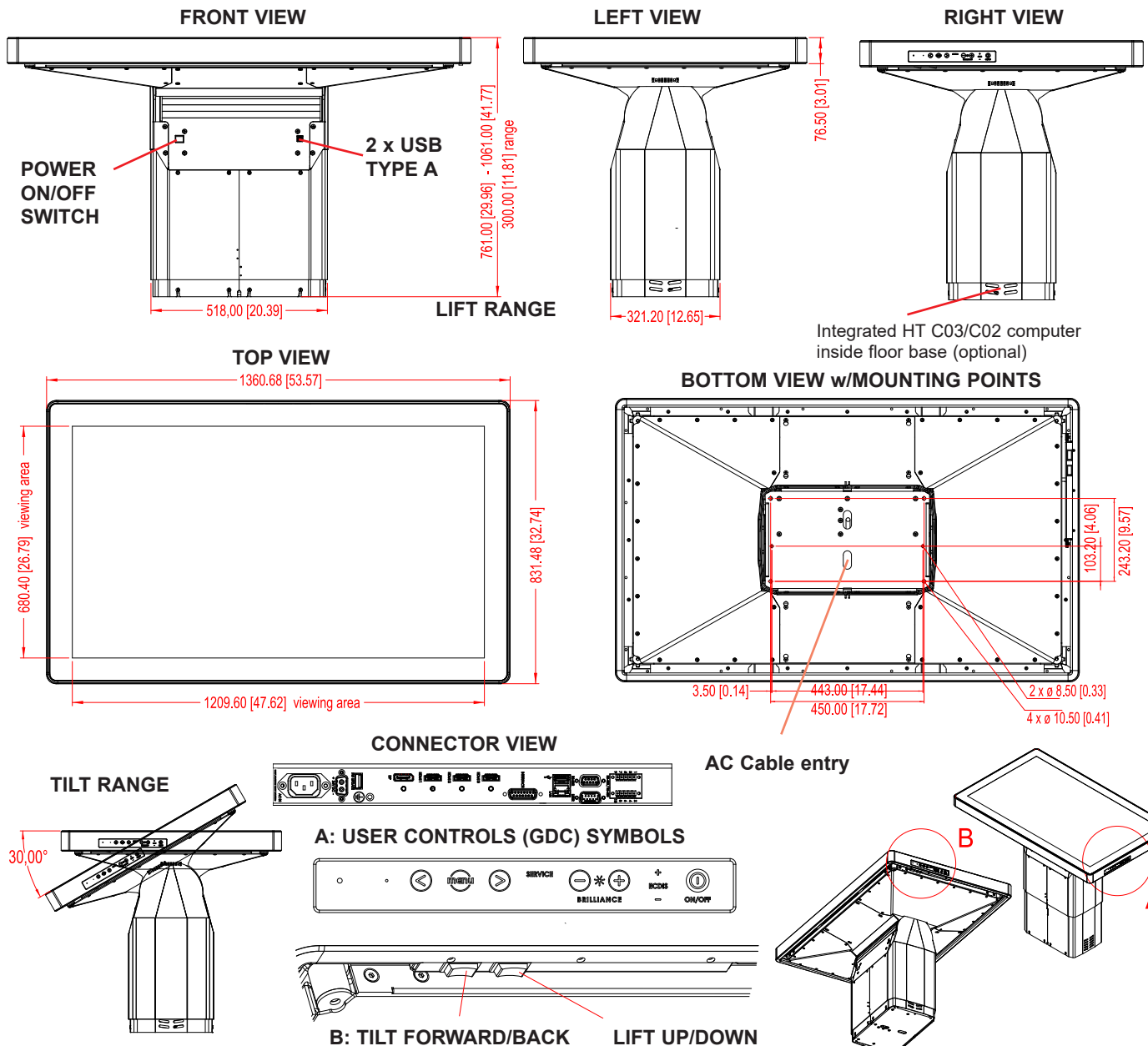
55.0 inch Chart & Planning Table

Features:

The Series X Multi Vision Display (MVD) range of products provides large 4K resolution display solutions to maritime IBS, Automation and Command Control system integrators. The cutting edge high definition LED display technology used, with its high quality brightness and contrast, enables the presentation of large amounts of data onto one screen instead of multiple displays.

The 4K resolution 55" Ultra-High Definition Chart & Planning table is approved for harsh maritime environments, where reliability and long life time are key factors. The 55" MVD table is a robust, flexible and ergonomic solution, suitable for a wide range of applications including ECDIS, radar, voyage planning, safety systems and tactical command & control platforms. Features include an 40 point Multi-touch touch interface, optical bonding, multi data input, built in On-Screen Display (OSD), full dimming and the option to be supplied calibrated for ECDIS.

A mechanical pod that houses a Hatteland Technology HT C03/C02 computer (optional) provides lift and tilt capability for the Floor Stand Model (Chart Table configuration).



Dimensions might be shown with or without decimals and indicated as mm [inches]. Tolerance on drawings is +/- 1mm. For accurate measurements, check relevant DWG file.

TFT Technology:

- High Quality TFT with LED Backlight Technology
- 55.0 inch viewable image size, Widescreen, Aspect Ratio 16:9
- TFT active-matrix liquid crystal panel, RGB vertical stripe
- MVA (Multi-domain Vertical Alignment) LCD Technology

TFT Characteristics:

- Native Resolution : 3840 x 2160 (UHD, 4K)
- Pixel Pitch (RGB) : 0.315 (H) x 0.315 (V) mm
- Response Time : 6.5 ms (typical) (G to G)
- Contrast Ratio : 4000:1 (typical)
- Light Intensity : 450 cd/m² (typical)
- Viewable Angle : +/- 89 deg. (typical) (Up/Down/Left/Right)
- Active Display Area : 1209.6 (H) x 680.4 (V) mm
- Max Colors : 16.7 million

Supported Signals:**Resolutions:**

VGA (640 x 350) to UHD (3840 x 2160*)

*Recommended for optimal picture quality. Review Timing Table in User Manual.

Power Specifications:**Power Supply:**

- 100-240V AC 50/60Hz

Power Consumption:

- Operating with HT C02 computer : 350W (typ) - 1037W (max)
- Operating with HT C03 computer : 350W (typ) - 865W (max)
- Operating without HT C03/C02 computer : 300W (typ) - 625W (max)

Physical Considerations:**Product Dimensions and Weight:**

- W:1360.68 [53.57"] x H:See below x D:831.48 [32.74"] mm [inch]
- Height is adjustable from 761.00 [29.96"] to 1061.00 [41.77"] mm [inch]
- Approx weight: 148.0kg / 325.6lbs (including optional HT C03/C02 computer)
- Approx weight: 135.0kg / 297.0lbs (without optional HT C03/C02 computer)
- **Product Carton Size and Weight (Shipping):**
- L:1500 [59.06"] x W:980 [38.58"] x D:1000 [39.37"] mm [inch] - 1.47m³
- Approx weight: 215.0kg / 473.0lbs

Internal Signal Terminals:

- HDMI 1.4 Input : 2 x 19p HDMI (female) - Max 3840x2160@30Hz
- HDMI 2.0 Input : 1 x 19p HDMI (female) - Max 3840x2160@60Hz
- DP 1.2 Input* : 1 x 20p DisplayPort (female) - Max 3840x2160@60Hz
- SCOM+Touch* : 1 x USB TYPE A Connector (female)
- SCOM RS-422/485 : 1 x 5-pin Terminal Block 3.81 non-isolated + Buzzer
- SCOM Ethernet : 1 x RJ45 Connector
- SCOM RS-232 : 1 x 9p D-SUB (female) non-isolated
- User Interface : 1 x 9p D-SUB (male) - Potentiometer Analog Input, User Brightness (BRT), On/Off and +5VDC & +12VDC OUT
- FW Update : 1 x USB TYPE A (female) for Firmware Update
- GDCx Interface : 1 x 15p D-SUB (male) for GDC Hardware Comm.
- AC Power IN : 1 x Junction Box enclosure w/Terminal Block

* If optional HT C03/C02 computer was delivered with Chart & Planning Table, these are connected by factory default to the internal Computer.
If no optional HT C03/C02 computer was delivered with Chart & Planning Table, the miniDP, USB Touch and AC Cables are provided to allow connection to alternative computer.

Table Stand Signal Terminals:

- USB2.0 (<5m) : 2 x USB Type A (4-pin) - Under Front Side of Table

User Controls:**On right side - Glass Display Control™ (GDC) IP66:**

- Power On/Off (display), On Screen Display Menu (OSD)*
- Brightness Control (-/+)
- Hotkeys (left/right), Mode Status Indicators (ECDIS, Service)
- Buzzer (not visible) (75-85dB), Light Sensor (not visible)

Under Right Side Table Frame:

- Tilt and Lift buttons

Under Front Side Table Frame:

- Main Power ON/OFF switch (switch for internal Computer and Display)
- *OSD Key Codes: 321=Get access to OSD, 362=Advanced Mode

Environmental Considerations:

- Operating : Temperature -15°C to +55°C
- Storage : Temperature -20°C to +60°C
- Humidity : Up to 95% (Operating / Storage)
- Shock - Vibration : 5g/11ms - 0.7g (IEC 60945 / IACS E10)
- Air Pressure Maximum Altitude : Operating: 4000m - Storage: 12912m
- Air Pressure Maximum Altitude : Operating: 3000m - Storage: 3000m (Bonded)
- IP Rating : Protection: IP66 front - IP22 rear (EN60529)
- Compass Safe Distance : Standard: 500cm - Steering: 230cm

Lifetime Considerations:

Even though the test conditions for bridge units provide for a maximum operating temperature of 55°C, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25°C. This is a necessary prerequisite for long life and low service costs.

Factory Options:

- Color Calibrated models (ECDIS): HD 55T22 MVD-AA4-TOGP
- Factory Integrated HT C03/C02 range of computers, contact Sales for details.

Factory Default:

- Projected Capacitive Touch Screen (Multitouch, USB interface)
- Optical Bonding Technology
- Transport Case: L:1500 [59.06"] x W:980 [38.58"] x D:1000 [39.37"] mm - 1.47m³
- 1 x 5240-15: Fabric Protection Top Cover, Stretch/Washable, Cotton

Available Accessories:

- HD 55CAS SX1-A1 : 1 x Transport Case (Approx 60.0 kg / 132.0lbs)
L:1470.00 [57.87"] x W:930.00 [36.61"] x D:1000.00 [39.37"] mm [inch] - 1.3m³
- HD 55BAS SX1-A1 : 1 x Base Mount Plate (not for permanent mount)
W:806.00 [31.73"] x H:610.00 [24.02"] x D:10.00 [0.39"] mm [inch]
- HD REM SX1-A1 : 1 x External Remote Control, EN60945 Tested
- 5240-15: 1 x Fabric Protection Top Cover, Stretch/Washable, Cotton

Prepared for:

- Tactor (Rotation Angle Value, X/Y Position, 1 x Button) supported Model
- Active Stylus Pen Supported Model

APPROVALS & CERTIFICATES

These products have been tested / type approved by the following classification societies:

IEC 60945 4th (EN 60945:2002)**CCS** - China Classification Society**LRS** - Lloyd's Register of Shipping**IACS E10****BV** - Bureau Veritas**EU RO MR** - Mutual Recognition by DNV**KR** - Korean Register of Shipping**ClassNK** - Nippon Kaiji Kyokai**ABS** - American Bureau of Shipping